



JD300 LOADER

FEATURES

43-flywheel horsepower, Diesel or gasoline.
8 forward, 4 reverse speeds.

Mechanical shuttle is regular equipment.
Hydraulic power-shift direction reverser for no-clutch reversing is special equipment.
Power steering regular equipment.

Choice of 1/2-yd. digging bucket, 5/8-yd. tread-width bucket, or 7/8-yd. light materials bucket. 20-degree rollback at ground level. 9-ft. 6-in. clearance at full height.

Excellent visibility and operating ease.

May be used in conjunction with John Deere backhoes, mowers, and landscaping equipment.

SPECIFICATIONS

(Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with IEMC and SAE Standards.)

Tractor.....JD300

Buckets:	Cu. Yd.	Width
Digging.....	1/2	65-1/2 in.
Tread-width utility.....	5/8	78-1/4 in.
Material-handling.....	7/8	78-1/4 in.

Operating information:

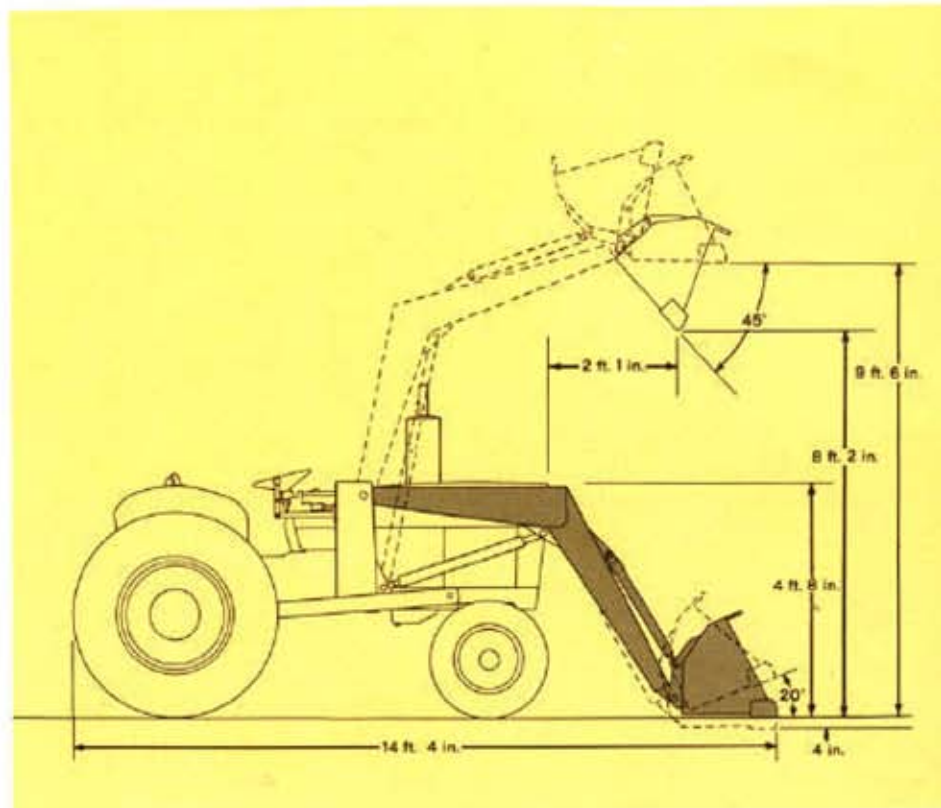
Breakout force.....	3,000 lb.
Rollback at ground level.....	20 degrees
Digging depth below ground level.....	4 in.
Lifting capacity, full height.....	2,000 lb.
Height to bucket hinge pin, maximum height.....	9 ft. 9 in.
Clearance, bucket dumped at 45 degrees.....	8 ft. 2 in.
Reach at maximum height, bucket dumped at 45 degrees.....	2 ft. 1 in.
Maximum dumping angle.....	45 degrees
Raising time to full height.....	3.6 seconds
Bucket dumping time.....	1.7 seconds
Power-down time.....	3.2 seconds
Float-down time.....	3.0 seconds
Minimum recommended rear ballast.....	2,000 lb.
Maximum recommended rear ballast.....	3,500 lb.

Hydraulic system:

Loader control.....	Two-lever, two-spool solid valve.
Pump.....	Piston-type, constant pressure, variable displacement, 24 gpm at 2,500 engine rpm.
System pressure.....	2,250 psi
Filter.....	25-micron paper cartridge in return line
Loader hydraulic system capacity.....	2.0 U.S. gal.
Transmission reservoir capacity.....	10 U.S. gal.
Hydraulic cylinders: Bore Dia. Rod Dia. Stroke	
Boom.....	2-1/4-in. 1-1/2-in. 24-5/8-in.
Bucket.....	2-1/2-in. 1-1/4-in. 15-3/4-in.

Shipping weight, JD300 Loader with 1/2-yd. digging bucket:

Diesel.....	5,115 lb.
Gasoline.....	5,065 lb.



SPECIFICATIONS

(Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with IEMC and SAE Standards.)

Horsepower (at 2,500 engine rpm):		Gasoline	Diesel
Net engine flywheel (at 500 ft. altitude and 85° F. temp.)		43	43
Travel speeds (mph) (with 14.9-24 rear tires and no slip):			
Shift Lever Position		2,500 Engine rpm	
Forward 1		1.4	
2		2.0	
3		2.9	
4		4.1	
5		5.5	
6		7.8	
7		11.5	
8		16.2	
Rev. 1		1.6	
2		2.3	
3		3.4	
4		4.8	

Engine: Variable speed, 3-cylinder, valve-in-head, 4-stroke cycle.

	Gasoline	Diesel
Bore and stroke	3-7/8x3-7/8 in.	3-7/8x4-5/16 in.
Piston displacement	135 cu. in.	152 cu. in.
Compression ratio	7.7 to 1	16.7 to 1
Operating speed range	1,500-2,500 rpm	1,500-2,500 rpm
Maximum torque	110 ft.-lb.	110 ft.-lb.
N.A.C.C. or A.M.A. horsepower rated for tax purpose		
	17.88	17.88
Lubrication	(Gas and Diesel engines) Pressure system with full flow filter.	
Rpm at maximum torque	1,300	1,300
Crankshaft	Induction-hardened, counterbalanced.	
Main and connecting rod bearings	Steel-backed, aluminum lined, removable.	

Main bearings:		
Number	3	4
Diameter	3-1/8 in.	3-1/8 in.
Length (total)	3.560 in.	4.715 in.
Cooling (gas and Diesel engines)	Pressurized with water pump, thermostat and fixed bypass.	
Governor	Enclosed flyweight type	Flyweight incorporated in injection pump
Carburetor	Conventional up-draft	
Fuel injection pump	Opposed plunger, inlet metering, single cylinder, distributor type	
Air cleaner	Dry type	
Electrical system	12-volt with alternator	12-volt with alternator
Starting	12-volt electric starter	12-volt electric starter

Transmission: Constant mesh, 8 forward speeds, 4 reverse (reverse speeds are 16 percent faster than corresponding forward speeds), with helical gears and sliding collars; mechanical shuttle.

Optional Direction Reverser: Hydraulic wet clutches, no clutching required. Provides a reverse speed for gear selections 1 through 4.

Final Drive: Planetary type

Over-all Gear Reduction Ratio:

In first gear	248 to 1
In high gear	21 to 1

Engine Clutch: Foot-operated automotive type with 10-inch plate. (Oil clutches when equipped with direction reverser.)

Brakes: Hydraulically actuated, wet-disk. Foot-operated individually or simultaneously.

Steering: Recirculating ball
Turning radius (brakes applied) Approx. 121 in.
Number of turns, far left to far right (power steering) 3-3/4 turns

Hydraulic System: Closed center. Special equipment—single rockshaft—remote-cylinder control. Crankshaft-driven 24 gpm pump.

Power Takeoff (Special Equipment):

Rear: Transmission driven, 540 rpm. Continuous "Live," 540 rpm; or dual speed 540-1,000 rpm.

Mid: 1,000 rpm "Live."

Tires and Wheels (Sizes and plies):

Front: 6:00-16, 6-ply, multiple rib

7:50-16, 6-ply, multiple rib

Rear: 14.9-24, 6-ply grader-type

Wheel Treads:

Front 56 in.

Rear 60 in.

Dimensions (with 14.9-24 rear tires, 7:50-16 front tires):

Height to top of hood 52-1/4 in.

Over-all height (top of muffler) 71-1/2 in.

Over-all width 72-1/2 in.

Over-all length 144-3/4 in.

Wheelbase 77 in.

Ground clearance (under front axle) 18-1/4 in.

Ground clearance, min. 12 in.

Weight (approximate):

Gasoline Diesel

Shipping (with single rockshaft, 3-point hitch, and drawbar) 5,065 lb. 5,115 lb.

Capacities (U.S. Measure):

Cooling system 2-3/4 gal.

Fuel tank, gasoline and Diesel 16-1/2 gal.

Engine lubrication, including filter 7 qt.

Transmission hydraulic system 10 gal.

Base Equipment:

Oil pressure indicator light	Power steering
Alternator charge indicator light	Anti-freeze
Water temperature gauge	Cushioned seat
Key-ignition switch with safety start	Electric hour meter
12-volt starter and electrical system	Vertical muffler
Alternator	Transistorized voltage regulator
Two 70 amp. dry-charge batteries	Fenders
Exhaust muffler cover	Constant Mesh transmission—8 forward and 4 reverse selections. Mechanical shuttle
Air cleaner (dry-type)	Fuel filter

Special Equipment:

Hydraulic system: Single rockshaft—single or dual remote cylinder control with quick-connect couplers; breakaway couplers; mid-mounted coupler.

Three-point hitch: Category 1 with sway blocks or sway chains; Category 2 with sway blocks.

Quick-Coupler	Pre-cleaner
Fixed drawbar	Ether starting aid (Diesel)
Swinging drawbar	Hydraulic power-shift direction reverser
Hitch drawbar	Differential lock
Remote hydraulic cylinder	Engine oil heater—240 watt electric
Rear-wheel weights	Deluxe cushioned seat with shock absorber suspension
Electric lights (fender-mounted front and combination rear flood, tail light and flasher warning light)	Foot throttle
Cigarette lighter	Automotive-type horn
Fuel gauge	Tachometer
Power Takeoff—Rear: Transmission-driven, 540 rpm; Continuous "Live," 540 rpm or dual speed 540-1,000 rpm.	
Mid: 1,000 rpm "Live."	